



## WORLD INTELLECTUAL PROPERTY ORGANIZATION ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE

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PATENT COOPERATION TREATY (PCT)
TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS (PCT)

CERTIFIED COPY OF THE INTERNATIONAL APPLICATION AS FILED AND OF ANY CORRECTIONS THERETO

COPIE CERTIFIÉE CONFORME DE LA DEMANDE INTERNATIONALE, TELLE QU'ELLE A ÉTÉ DÉPOSÉE, AINSI QUE DE TOUTES CORRECTIONS Y RELATIVES

PCT/IB02/02537

International Application No. Demande internationale n°

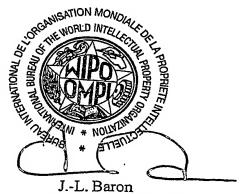
International Filing Date
Date du dépôt international

01 July 2002 (01.07.02)

Geneva/Genève, 05 May. 2003 (05.05.03)

International Bureau of the World Intellectual Property Organization (WIPO)

Bureau International de l'Organisation Mondiale de la Propriété Intellectuelle (OMPI)



Head, PCT Receiving Office Section Chef de la section "office récepteur du PCT"

PRIORITY DOCUMENT

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## **PCT**

#### REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

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0 1 JULY 2002 International Filing Date

International Application No.

( 0 1. 07. 02 )

INTERNATIONAL BUREAU OF WIPO

Name of receiving territional por Philippina Application"

Applicant's or agent's file reference (if desired) (12 characters maximum) 99000104/CHE

	(ij aestrea) (12 characi	ers maximum) 99000 TO47CHE
Box No. I TITLE OF INVENTION		
A system and method for delivering representat	ive media objects	of a broadcast media stream to
a mobile terminal		
	n is also inventor	
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen	ity, full official designation. he address indicated in this ce is indicated below.)	Telephone No.
NOKIA CORPORATION		Facsimile No.
Keilalahdentie 4		Teleprinter No.
FIN-02150 Espoo		1 oronward 1.00
Finland		Applicant's registration No. with the Office
		whhreen avolianement or went = 2
State (that is, country) of nationality:	State (that is, country) Finland	of residence:
Finland		the United States the States indicated in
This person is applicant all designated all designated for the purposes of:	ed States except States of America	of America only the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURT		
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	tity, full official designation. the address indicated in this ace is indicated below.)	This person is:
MÄKIPÄÄ, Mikko		
Airoranta 9 A		
FIN-00830 Helsinki		inventor only (If this check-box is marked, do not fill in below.)
Finland		
Finland		Applicant's registration No. with the Office
- runanu		Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country Finland	
State (that is, country) of nationality: Finland This person is applicant all designated all designated		
State (that is, country) of nationality:  Finland  This person is applicant all designated all designat for the purposes of:	Finland ed States except States of America	the United States of America only the Supplemental Box
State (that is, country) of nationality:  Finland  This person is applicant all designated for the purposes of:  States all designated the United in the Uni	Finland ed States except States of America on a continuation sheet.	the United States the States indicated in of America only the Supplemental Box
State (that is, country) of nationality: Finland This person is applicant all designated all designate for the purposes of:  States  Further applicants and/or (further) inventors are indicated	Finland  ed States except States of America  on a continuation sheet.  G; OR ADDRESS FOR on behalf	the United States the States indicated in of America only the Supplemental Box
State (that is, country) of nationality:  Finland  This person is applicant all designated the United states for the purposes of:  X Purther applicants and/or (further) inventors are indicated Box No. IV AGENT OR COMMON REPRESENTATIVE.  The person identified below is hereby/has been appointed to act	Finland  ed States except States of America  on a continuation sheet.  G; OR ADDRESS FOR  on behalf s as:  tity, full official designation.	the United States of America only the States indicated in the Supplemental Box  CORRESPONDENCE  agent common representative
State (that is, country) of nationality:  Finland  This person is applicant all designated for the purposes of:  Further applicants and/or (further) inventors are indicated  Box No. IV AGENT OR COMMON REPRESENTATIVI  The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities  Name and address: (Family name followed by given name; for a legal en  The address must include postal code and name of the applicant (s) and the second name of the address must include postal code and name of the address must	Finland  ed States except States of America  on a continuation sheet.  G; OR ADDRESS FOR  on behalf s as:  tity, full official designation.	the United States of America only the States indicated in the Supplemental Box  CORRESPONDENCE  agent common representative  Telephone No. +45 70 20 00 33  Facsimile No.
State (that is, country) of nationality:  Finland  This person is applicant all designated the United:  States the United:  X Further applicants and/or (further) inventors are indicated  Box No. IV AGENT OR COMMON REPRESENTATIVE  The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities  Name and address: (Family name followed by given name; for a legal en  The address must include postal code and name of the AWAPATENT A/S  Teglholm Allé 13	Finland  ed States except States of America  on a continuation sheet.  G; OR ADDRESS FOR  on behalf s as:  tity, full official designation.	the United States of America only the States indicated in the Supplemental Box  CORRESPONDENCE  agent common representative  Telephone No. +45 70 20 00 33  Facsimile No. +45 70 20 04 33
State (that is, country) of nationality: Finland  This person is applicant all designated the United of the purposes of:  Further applicants and/or (further) inventors are indicated  Box No. IV AGENT OR COMMON REPRESENTATIVE  The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authoritie  Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of the AWAPATENT A/S  Teglholm Allé 13  DK-2450 København SV	Finland  ed States except States of America  on a continuation sheet.  G; OR ADDRESS FOR  on behalf s as:  tity, full official designation.	the United States of America only the States indicated in the Supplemental Box  CORRESPONDENCE  agent common representative  Telephone No. +45 70 20 00 33  Facsimile No.
State (that is, country) of nationality:  Finland  This person is applicant all designated the United:  States the United:  X Further applicants and/or (further) inventors are indicated  Box No. IV AGENT OR COMMON REPRESENTATIVE  The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities  Name and address: (Family name followed by given name; for a legal en  The address must include postal code and name of the AWAPATENT A/S  Teglholm Allé 13	Finland  ed States except States of America  on a continuation sheet.  G; OR ADDRESS FOR  on behalf s as:  tity, full official designation.	the United States of America only the States indicated in the Supplemental Box  CORRESPONDENCE  agent common representative  Telephone No. +45 70 20 00 33  Facsimile No. +45 70 20 04 33
State (that is, country) of nationality: Finland  This person is applicant all designated the United of the purposes of:  Further applicants and/or (further) inventors are indicated  Box No. IV AGENT OR COMMON REPRESENTATIVE  The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authoritie  Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of the AWAPATENT A/S  Teglholm Allé 13  DK-2450 København SV	Finland  ed States except States of America  on a continuation sheet.  G; OR ADDRESS FOR on behalf s as:  tity, full official designation. country.)	of residence:  the United States of America only the States indicated in the Supplemental Box  CORRESPONDENCE  agent common representative  Telephone No. +45 70 20 00 33  Facsimile No. +45 70 20 04 33  Teleprinter No.  Agent's registration No. with the Office

Form PCT/RO/101 (first sheet) (March 2001; reprint January 2002)

## **PCT**

#### REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Off	ice use only
PCT / IB 0 2 / I	2537
0 1 JULY 2002 International Filing Date	( 0 1. 07. 02 )
INTERNATIONAL BURE PCT International An Name of receiving Office and "PCT"	

Applicant's or agent's file reference (if desired) (12 characters maximum) 99000104/CHE Box No. I TITLE OF INVENTION A system and method for delivering representative media objects of a broadcast media stream to a terminal Box No. II APPLICANT This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Telephone No. Facsimile No. NOKIA CORPORATION Keilalahdentie 4 Teleprinter No. FIN-02150 Espoo Finland Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: Finland This person is applicant for the purposes of: all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box all designated States FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this This person is: Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) applicant only MÄKIPÄÄ, Mikko applicant and inventor Airoranta 9 A inventor only (If this check-box is marked, do not fill in below.) FIN-00830 Helsinki Finland Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: Finland Finland This person is applicant for the purposes of: all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box Further applicants and/or (further) inventors are indicated on a continuation sheet. Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: common representative X Name and address: (Family name followed by given name; for a legal entity, full official designation.

The address must include postal code and name of country.) Telephone No. +45 70 20 00 33 AWAPATENT A/S Facsimile No. Teglholm Allé 13 +45 70 20 04 33 DK-2450 København SV Teleprinter No. Denmark Agent's registration No. with the Office

Form PCT/RO/101 (first sheet) (March 2001; reprint January 2002)

See Notes to the request form

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

		PCT/IB02/
Shert No	2	
Continuation of Box No. III FURTHER APPLICANT(S) A		
If none of the following sub-boxes is used, this sheet should not	be included in the req	uest.
Name and address: (Family name followed by given name; for a legal entity the address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence ANTTILA, Akseli Pajalahdentie 6 B 25 FIN-00200 Helsinki Finland	y, full official designation.  a address indicated in this	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country)	of residence:
Finland	Finland	A Shares Indicated in
This person is applicant all designated all designate for the purposes of:	d States except totes of America	the United States the States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal entitude address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence is the Applicant's State (that is, country) of residence if no State of residence is the Applicant's State (that is, country) of residence if no State of residence is the Applicant's State (that is, country) of residence if no State of residence is the Applicant i	ty, full official designation. se address indicated in this se is indicated below.)	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country	of residence:
Finland	Finland	the United States the States indicated in the Supplemental Box
This person is applicant all designated all designate for the purposes of:	d States except tates of America	the United States of America only the Supplemental Box
Name and sudgess: (Family name followed by given name; for a legal en The address must include postal code and name of country). The country of Box is the applicant's State (that is, country) of residence if no State of residen	ity, full official designation. The address indicated in this tice is indicated below.)	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country	y) of residence:
This person is applicant all designated all designate for the purposes of:	ed States except States of America	the United States the States indicated in the Supplemental Box
Name and address: (Family name followed by given name; for a legal at Time address must include postal code and name of country. The country of Box is the applicant's Stale (that is, country) of residence if no State of reside	utty, full official designation	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office

Form PCT/RO/101 (continuation sheet) (March 2001; reprint January 2002)

all designated States

Further applicants and/or (further) inventors are indicated on another continuation sheet.

State (that is, country) of nationality:

This person is applicant for the purposes of:

See Notes to the request form

the States indicated in the Supplemental Box

the United States of America only

State (that is, country) of residence:

all designated States except the United States of America

Box No. V DESIGNATION OF STATES	Mark the applicable check-boxes below; at least one must be marked.
The following designations are hereby made u	nder Rule 4.9(a)
	······································
Regional Patent	A 11 was to water the natival-land M7 Managhiana ED Sudan
K AP ARIPO Patent: GH Ghana, GM	I Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other
SL Sterra Leone, SZ SWaziland, XZ	onted Republic of Tanzania, OG Oganda, 2M Zantola, 2W Zintolawe, and any onter of the Harare Protocol and of the PCT (if other kind of protection or treatment desired,
	the market Frotocol and of merci () ones with of pro-
K EA Enrasian Patent: AM Armenia AZ	Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova,
RU Russian Federation. TJ Tailkist	in, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian
Patent Convention and of the PCT	
EP European Patent: AT Austria, BE I	Belgium, BC Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech
Republic, DE Germany, DK Denma	rk. EE Estonia, ES Spain. FI Finland, FR France, GB United Kingdom, GR Greece,
IE Ireland, IT Italy, LU Luxembowg	, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, SK Slovakia, TR Turkey, and ag State of the European Patent Convention and of the PCT
X OA OADI Datante RF Burling Fore D	J Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon,
GA Gabon, GN Guinea, GO Equato	orial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal,
TD Chad, TG Togo, and any other S	tate which is a member State of OAPI and a Contracting State of the PCT (if other kind
of protection or treatment desired, sp	ecify on dotted line)
National Patent (if other kind of protection	or treatment desired, specify on dotted line):
AT Thisted Amb Emirater	KI CM Combin
M AG Antique and Barbuda	HR Croatia M OM Oman
M AL Albania	HU Hungary PH Philippines
MI ABE Assessed	K TD Independent W PI. Poland
X AT Austria	IL Israel Israel Israel
AU Australia	IN India
🖺 AZ Azerbaijan	IS Iceland RU Russian Federation
BA Bosnia and Herzegovina	JP Japan KI SD Sudan
M BB Barbados	KE Kenya
E BR Brazil	K KP Democratic People's Republic S SG Sincapore
RI RV Relatio	of Korea
K BZ Belize	KR Republic of Korea SK Slovakia
K CA Canada	KZ Kazakhatan KSL Sierra Leonz
CH & LI Switzerland and Liechtenstein	LC Saint Lucia TJ Tajikistan
CN China	LK Sri Lanka TM Turkmenistan
CO Colombia	LR Liberia In Tunisia
CR Costa Rica	I LR Liberia  LS Lesotho  TR Turkey  TT Trinidad and Tobago
	m Ct Dimina
CZ Czech Republic	ILV Latvia TZ United Republic of Tanzania
DE Germany	MA Morocco
M Dominica	MD Remiblic of Moldovs UG Uganda
DZ Algeria	W US United States of America
EC Ecuador	MG Madagascar
EE Estonia	MK The former Yugoslav Republic of UZ Uzbekistan
ES Spain	Macedonia 🛣 VN Viet Nam
	MN Mongolia YU Yugoslavia
GD Grenada	MX Mexico
K GE Georgia	MZ Mozambique MZ ZW Zimbabwe
K GH Ghana	M NO Norway
Check-boxes below reserved for designating S	tates which have become party to the PCT after issuance of this sheet:
	7
	<b>]</b>
	ddition to the designations made above, the applicant also makes under Rule 4.9(b) all
other designations which would be permitted	under the PCT except any designation(s) indicated in the Supplemental Box as being
excluded from the scope of this statement. The	applicant declares that those additional designations are subject to confirmation and that
any designation which is not confirmed before	the expiration of 15 months from the priority date is to be regarded as withdrawn by the confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

Form PCT/RO/101 (second sheet) (July 2002)

Sheet No. .. 4 ...

Box No. VI PRIORITY	CLAIM					
The priority of the following	earlier application(s) is hereb	oy claimed:				
Filing date			Where earlier application is:			
of earlier application (day/month/year)	VI carrier opposition	national application: country	regional application:* regional Office	international application: receiving Office		
item (1)	·					
item (2)						
item (3)		÷				
item (4)		· .				
item (5)						
Further priority claims	are indicated in the Suppleme	ental Box.				
if the earlier application was above as:  all Rams item item item where the earlier application industrial Property or one Management in the international Seinternational Seinternational search, Indicate ISA / EP	on is an ARIPO application, in tember of the World Trade Or TONAL SEARCHING AUTONAL SEARCHING APPLICATION OF THE SEARCH S	item (3) Item  item (3) Item  item (3) Item  item (4) Item  item (5) Item  item (6) Item  item (7) Item  item (7) Item  item (7) Item  item (8) Item  item (	(4) item (5)  y party to the Paris Convertier application was for searching Authorities are	other, see Supplemental Box ention for the Protection of iled (Rule 4.10(b)(ii)):		
Box No. VIII DECLARA	TIONS		·			
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Number of check-boxes below and indicate in the right column the number of each type of declaration): declarations						
Box No. VIII (I)	Declaration as to the identity of the inventor					
Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent					
Box No. VIII (iii)	Declaration as to the appl date, to claim the priority	icant's entitlement, as at of the earlier application	the international filing	:		
Box No. VIII (iv)		Declaration of inventorship (only for the purposes of the designation of the United States of America)				
Box No. VIII (v)	Declaration as to non-prej	udicial disclosures or exc	eptions to lack of novel	y:		

Form PCT/RO/101 (third sheet) (March 2001; reprint January 2002)

#### Sheet No. . . 5.

## Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No.VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

in relation to the present international patent application

NOKIA CORPORATION is entitled to apply for and be granted a patent by virtue of the following:

- (ii) NOKIA CORPORATION is entitled as employer of the inventors, Mikko Mäkipää, Akseli Anttila and Toni Kopra.
- (ix) this designation is made for the purposes of:

  (a) all designations [except the designation of the United States of America]

This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

Form PCT/RO/101 (declaration sheet (ii)) (March 2001; reprint January 2002)

#### Sheet No. . 9 ....

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)
The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v)
(in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

## Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:

Ikeraby declare that   Delieve I am the original, first and sole (if only one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.  This declaration is directed to international application of which it forms a part (if filing declaration with application.)  This declaration is directed to international application No. PCT/		
This declaration is directed to the international application of which it forms a part (if filing declaration with application).  This declaration is directed to international application No. PCT/.  It to Rule 26ter).  It hereby declare that my residence, mailing address, and citizanship are as stated next to my name.  I hereby state that I have reviewed and understand the contents of the show-identified international application, including the claims of raid application. I have identified in the requiset of insispapition of the property of the contents of the show-identified international application, including the claims of raid application. In have formed the theory of the property of the property of a policy of the property of the prope	is listed below) inventor of the subject matter which is claimed and I	ot which a bateur is souther.
This declaration is directed to international application No. PCT/ (if furnishing declaration pursuant to Rule 266er).  Increby declare that my residence, mailing address, and citizenship are as stated next to my name.  I hereby state that I have reviewed and understand the contents of the above-identified international application, incumination, incumination, including the claims of said application. I have identified in the request of said application, incompliance with PCT Rule 4.0, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application another, country or Member of the World I rude Organization, 4xy, month and year of filing, any application for a patient or investor's certificate field an ecountry other than the United States of America, including any PCT international application designating at least one country other than the United States of America, including any PCT international application on which foreign priority is claimed.  Prior Applications:  I bereby acknowledge the duty to disclose information on which foreign priority is claimed.  Prior Applications.  I bereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continualized-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.  I bereby declare that all statements mands berein of my own knowledge are true and that all statements made on information and belief are beiseved to be true; and further that these attements were made with the knowledge that willful false statements and the like so are already and the particle of the continuation information and belief are beisered to be true; and further that the categories of the prior and the file of the united States Code and that such willful false statements may lead to the particle of the particle of the p	This declaration is directed to the international application of which i	t forms a part (if filing declaration with application).
I hereby tate that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified the beregisted of said application, incompliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications." by application at the country of the World Trade Organization, day, month and year of filing, any application for a patient or inventor's estificate filed in a country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.  Prior Applications:  I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the continuation-in-part application and the PCT international fling date of the continuation-in-part application. The prior application and the PCT international fling date of the continuation-in-part application. The part application and the PCT international fling date of the continuation-in-part application. The part application are the PCT international fling date of the continuation-in-part application. The part application are available between the filing date of the continuation-in-part application.  I hereby deacher that all statements made herein to from your knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willfulf false statements may jeopardize the validity of the application or any patent issued thereon.  Name: Mikko Měkirožě  (if not contained in the request, or if declaration is corrected or added under Rule 25ter after the filing of the international application.  Pate.  (of signature which is not contained in the request, or of the declaration that of the international appl	This declaration is directed to international application No. PCT/ to Rule 26ter).	(if furnishing declaration pursuant
of said application. I have identified below, under the heading "Frior Applications," by application number, country of Member of the Weid Trade Organization, day, month and year of filling, any application for a patient or investor's certificate filed in a country other than the United Organization, day, month and year of filling, any application for a patient or investor's certificate filed in a country other than the United Organization, day, month and year of filling, any application or a patient or investor's certificate filed in a country other than the United Organization, day, month and year of filling, any application or which foreign priority is claimed.  Prior Applications:  I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 7°C.F.R. § 1.56, including for continuation—hard applications, material information which became available between the filling date of fine prior application and the FCT international filling date of the continuation—the application and the FCT international filling date of the continuation—the application and the FCT international filling date of the continuation—the application and the FCT international filling date of the continuation—the application and the FCT international filling date of the continuation—the application and the FCT international filling date of the continuation—the application and the FCT international filling date of the continuation—the application and the FCT international filling date of the continuation—the application and the FCT international filling date of the continuation—the application is organized and the application of the international application is organized and the international application. The signature must be that of the inventor, not that of the international application. The signature must be that of the inventor, not that of the international application. The signature must be that of the inventor, not that of the international application that is corrected or add	I hereby declare that my residence, mailing address, and citizenship a	are as stated next to my name.
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This international application contains:  (a) the following number of sheets in paper form:  request (including declaration sheets) : 8  description (excluding sequence listing part) : 22  claims : 8  abstract : 1  drawings : 4  Sub-total number of sheets : 43  sequence listing part of description (actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (b) below) : 43  (b) sequence listing part of description filed in computer readable form (i) only (under Section 801(a)(i))  (ii) in addition to being filed in paper form (under Section 801(a)(ii))  Type and number of carriers (diskette, CD-ROM, CD-R or other) on which the sequence listing part is contained (additional copies to be indicated under item 9(ii), in right column):	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):  1. If fee calculation sheet  2. original separate power of attorney  3. oxiginal general power of attorney  4. copy of general power of attorney; reference number, if any: .02/002 1.  5. statement explaining lack of signature  6. priority document(s) identified in Box No. VI as item(s):  7. translation of international application into (language):  8. separate indications concerning deposited microorganism or other biological material  9. sequence listing in computer readable form (indicate also type and number of carriers (diskette, CD-ROM, CD-R or other))  (i) copy submitted for the purposes of international sear under Rule 13ter only (and not as part of the international application)  (ii) (only where check-box (b)(i) or (b)(ii) is marked in least column) additional copies including, where applicable the copy for the purposes of international search under Rule 13ter  (iii) together with relevant statement as to the identity of the copy or copies with the sequence listing part mentioned in left column  10. other (specify):  Language of filing of the	ch : : : !c, !c, :
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*	Christian Hauge AWAPATENT A/S	
	For receiving Office use only	Drawings:
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5. International Searching Authority (if two or more are competent): ISA /

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## A SYSTEM AND METHOD FOR DELIVERING REPRESENTATIVE MEDIA OBJECTS OF A BROADCAST MEDIA STREAM TO A TERMINAL

#### Field of invention

This invention relates to a system and method for delivering media objects associated with a broadcasted media stream to one or more terminals.

#### Background of invention

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Media streams such as a radio or television transmissions, videos, or DVDs are generally controlled and presented by a communication system such as a radio or television receiver, a video recorder or DVD player. A user may control the presentation of the media stream by directly operating the communication device so as to select a particular media stream or particular sequence of the particular media stream. The known media streams and known communication devices are satisfactory in the presentation of a media stream in a sequential fashion. However, when it comes to commercial utilisation of the media stream the known communication systems may be further improved in order to serve multi-technical communication systems, i.e. combinations of communication systems, and to fulfil future customer demands for versatility of their communication devices and media stream products.

#### Summary of the invention

An object of the present invention is to provide a system and method for providing media objects of a media stream, which media objects are created for and made available to a user of a communication system during a primary media stream experience.

A further object of the present invention is to capture a frame of a media stream of a broadcast or video transmission to a terminal.

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10 A particular advantage of the present invention is provision of editing capability for editing a frame of a media stream so as to personalise the frame.

A particular feature of the present invention relates to the provision of a "capture of the moment" or "record" hot key in a terminal enabling a user to download a frame from a plurality of frames of a media stream.

The above objects, advantage and feature together with numerous further objects, advantages and features, which will be evident from below detailed description, is accomplished by a solution in accordance to a first aspect of the present invention by a system for delivering a media object to one or more terminals, which media object is associated with a media stream

25 broadcasted to one or more media stream receivers, said system comprising:

- (a) a broadcasting network for connecting to said one or more media stream receivers;
- (b) a first communications network for connecting to said one or more terminals; and
- (c) a communication device connecting to said broadcasting network and broadcasting said media stream to said one or more media stream receivers, and connecting to said

communications network and communicating said media object to said one or more terminals.

The term "one or more" should in this context be construed as a, an, at least one, at least a single.

The media stream according to the first aspect of the present invention may comprise a television and/or radio transmitted show, drama, movie, sports game, news, or any combination thereof. Thus any type of television and/or radio transmission may constitute a media stream.

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In addition, the media object may comprise a text, a picture, a series of pictures, a video, a series of videos, an audio recording, a series of audio recordings, or any combination thereof. Hence the media object may comprise any related or unrelated information in regards to the media stream and may be presented in any type of readable format.

The terminal according to the first aspect of the present invention may comprise a phone, a cellular or mobile phone, a personal computer, a television, a set top box, a multimedia terminal, a personal office assistant or any combination thereof, and the one or more media stream receivers may comprise a set top box, multimedia terminal, television receiver, television, radio receiver or any combination thereof.

The communication device according to the first aspect of the present invention may broadcast to the one or more media stream receivers by a cable television network, a satellite television network, a radio frequency television network, a telephone network, a powerline network, a radio network or any

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combination thereof. Thus any type of network may generally be applied for broadcasting of the media stream, i.e. various types of providers capable of transmitting the media stream to the receivers may be used. This provides for a system, which is very versatile.

The communication device according to the first aspect of the present invention may be adapted to transmit digitally coded communication such as digital video broadcasting and/or digital audio broadcasting. The digitally coded signals provide better transmission quality and enables the communication device to forward additional information to a receiver.

The first communications network according to the first aspect of the present invention may comprise a telephone wire network, 15 a cable television network, a powerline network, a computer network, a wireless telephone network, or any combination thereof. The communication between the communication device and the one or more terminals may utilise a wide variety of network types and wide variety of combinations of network types depending upon which provider is selected.

The communication device according to the first aspect of the present invention may comprise a broadcasting unit for broadcasting the media stream to the one or more media stream receivers, a management unit for providing the media object to the one or more terminals, and a second communications network for interconnecting the broadcasting unit and the management unit. The broadcasting unit may comprise a marker for generating a media stream identification tag associated to the media stream, which media stream identification tag may comprise information regarding duration of the media stream, lapsed time of the media stream, broadcasting schedule for the

media stream, broadcasting channel for the media steam, or any combination thereof. By tagging the media stream with an identification mark any specific media objects relating to the media stream may be connected to the media stream in the communication device so as to provide a tool for managing the media objects.

Further, the broadcasting unit may be adapted to perform a continuous communication of data regarding the media stream information tag, an updating communication of revision of specific data regarding the media stream information tag, a communication based on schedule of the media stream, or any combinations thereof. Any of the above reference communications are advantageous since they all serve a specific purpose. Continuous communication enables the broadcast unit to continuously correct for changes in the broadcast scheduling of the media stream and to continuously create new media objects relating to the media stream. Updating communication similarly provides the broadcasting unit with the possibility to adjust for changes in the broadcast scheduling of the media stream. Finally, the scheduled communication such as predefining intervals in which the broadcast unit may communicate with the management unit provides a well structured and coordinated communication form.

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The management unit according to the first aspect of the present invention may comprise an application program interface for receiving the media object, a database for storing the media object and the media stream identification tag, a real time publishing interface for enabling real time publishing of the media object, and a user interface for providing the one or more terminals access to select the media object stored in the database through the first communications network. The various

interfaces may be implemented in a plurality of format so as to support a wide range of communication standards.

The user interface may be adapted to respond to a request from the one or more terminals and to generate a media object list of media objects, which are accessible for the one or more terminals.

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The second communications network according to the first aspect
of the present invention may comprise local area network,
metropolitan area network; wide area network, or inter-network
such as the Internet, a dedicated communication line, or any
combination thereof. The first aspect of the present invention
may therefore be implemented for any particular network being
wireless or hardwire.

The system according to the first aspect of the present invention may further comprise a billing unit for managing billing transactions for the one or more terminals' requests for the media object and for generating invoices to the one or more terminals in accordance with the billing transactions. The transactions may be recorded so as to present invoices to users of the system.

In addition, the system may further comprise a third communications network for interconnecting the billing unit and the management unit and a fourth communications network for interconnecting the billing unit and the one or more terminals. The third and fourth communications network comprises local area network, metropolitan area network, wide area network, or inter-network such as the Internet, a dedicated communication line, a telephone wire network, a cable television network, a powerline network, a computer network, a wireless telephone

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network, or any combination thereof. As described above the network type is not limited since the system may be incorporating into any known network types.

- The term broadcasting network is to be construed as a cable TV network, a satellite TV network, a radio frequency TV network, a radio cable or terrestrial network, and/or any TV or radio network utilising digital transmission techniques.
- The communication device according to first aspect of the present invention may broadcast the media stream and the media object through the broadcasting network and the one or more media stream receivers may connect to the first communications network and communicate the media object to the one or more terminals. The media object may be broadcast through a digital television network as part of the media stream such as through super text TV. A digital receiver such as a set-top box may store the media objects and communicate them subsequently to the one or more terminals.

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The above objects, advantages and features together with numerous further objects, advantages and features which will be evident from below detailed description is accomplished by a solution in accordance to a second aspect of the present invention by a method for delivering a media object to one or more terminals, which media object is associated with a media stream broadcasted to one or more media stream receivers, and

- (a) associating said media object with said media stream by means of a communication device;
  - (b) broadcasting said media stream to said one or more media stream receivers through a broadcasting network by means of said communication device; and

said method comprising:

(c) communicating said media object to a requesting terminal of said one or more terminals through a communications network by means of said communication device.

The method according to the second aspect of the present invention may further comprise defining a parameter for the media object by means of the communication device and the parameter defining a media object format such as audio, video, image, or any combination thereof, a technical format, an alternative task such as full view or close-up, a terminal requirement, or any combination thereof. By defining the parameter the method provides for an effective means for selecting those media objects which are readable to a specific terminal.

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The method according to the second aspect of the present invention may further comprise packaging a set of media objects associated with the media stream and publishing the set of media objects to the one or more terminals by means of the communication device. The packaging may comprise linking the media object to the media stream so that the media object is attached to a broadcasting time line of the media stream and defining the availability of the media object in accordance with the broadcasting time line of the media stream. Obviously, some connection between the media stream and the media objects is required in order to manage a media object relative to a terminal and relative to a media stream.

The packaging may further comprise defining a media object

30 based on a key moment of the media stream as an elapsed time
from the start of the media stream, defining the media object's
availability prior, during and after broadcast of the media
stream, defining an additional time period during which the

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media object's availability is announced but not available for transfer, or any combination thereof. Any desired part of a media stream may be utilised for the creation of a media object associated with the media stream.

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The method according to the second aspect of the present invention may further comprise managing the set of media objects by means of the communication device, and the managing comprises controlling availability of each media object of the set of media objects in accordance with the broadcast time line for the media stream. The availability of the media object is controlled so as to provide a constant high level of current interest in the media objects. This motivates a user to further ouse the method for downloading more media objects.

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The method according to the second aspect of the present invention may further comprise providing the one or more terminals access to the available media objects and enabling a requesting terminal of the one or more terminals to transfer any specific available media object. The providing may comprise presenting a user interface to the one or more terminals, which user interface lists the set of media objects. The user of a terminal may thus select from a set of media objects associated with any particular media stream. The number of media objects in a set may vary in accordance with the popularity of the media stream.

The method according to the second aspect of the present invention may further comprise generating a media object by means of the communication device in response to a request from the one or more terminals. The request is accomplished by a user of a terminal depressing a hotkey for capturing a key moment of the media stream. The user interface presents a

specific list for a specific terminal, which specific list comprises a media object, which is readable by the specific terminal. The user of a terminal may thus by depressing a button on his terminal initiate the creation of a media object to a media screen. In this way the user may select any frame or sound he desires from the media stream.

The method according to the second aspect of the present invention may further comprise purchasing the media object from the communication device by means of the one or more terminals, by purchasing the media object the media object is transferred, to the one or more terminals. Since media streams may be subject to royalties the user of the method should be at least self supporting or part of a business.

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The method according to the second aspect of the present invention may further comprise recording and processing of the transfer of the media object to the one or more terminals by means of a transaction processing device. Payment of the utilised services may be monitored in a wide variety of ways thus the method opens the possibility for implementation in many circumstances.

The method according to the second aspect of the present
invention may further comprise identifying the media object
format by means of the one or more terminals, the identifying
revealing information such as supporting application needed,
additional rights pertaining to the media object, forwarding
limitations associated with the media object, or any
combination thereof.

The method according to the second aspect of the present invention may further comprise providing privileges associated

with the media object and with the one or more terminals. The privileges enable the one or more terminals to copy or forward the media object in accordance with each of the one or more terminals' number of purchases of said media object. In addition or alternatively, the may privileges disable the one or more terminals to copy or forward said media object. Further in addition or alternatively, the privileges may disable the one or more terminals to copy or forward more than the one or more terminals to copy or forward more than the one or more terminals' number of purchases. It is important to monitor and restrict the user of the terminals in exploiting the media objects beyond the rights pertained thereto. Hence the method according to the second aspect of the present invention may ensure against this type of exploitation. The privileges may be incorporated in the system according to the first aspect of the present invention.

The method according to the second aspect of the present invention may further incorporate any features of the system according to the first aspect of the present invention.

#### Brief description of the drawings

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The above, as well as additional objects, features and advantages of the present invention, will be better understood through the following illustrative and non-limiting detailed description of preferred embodiments of the present invention, with reference to the appended drawings, wherein:

Figure 1 shows a system according to a first embodiment of the 30 present invention;

Figure 2 shows an example of the methodology used by the system according to the first embodiment of the present invention;

Figure 3 shows an overall view of key components of the system according to the first embodiment of the present invention; and

5 Figure 4 shows a flow chart of method according to a second embodiment of the present invention.

#### Detailed description of preferred embodiments

In the following description of the various embodiments, reference is made to the accompanying drawings which form a part hereof, and in which is shown by way of illustration various embodiments in which the invention may be practiced. It is to be understood that other embodiments may be utilized and structural and functional modifications may be made without departing from the scope of the present invention.

A communication system according to a first embodiment of the present invention is shown in figure 1 as designated in its entirety by reference numeral 10.

The communication system 10 enables a user of a terminal 12, such as a cell or mobile phone, during a media stream broadcast to capture a media object. A media object should in this context be construed as a frame of a media stream, a series of frames of a media stream, a video sequence of a media stream, a part of a sound track of a media stream, or any combination thereof.

The communication system 10 further comprises a display 14 for displaying a broadcasted media stream 16. The display 14 is communicating with a receiver 18, such as an external or internal digital set-top box, a digital receiver, or an

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analogue receiver. The receiver 18 may in an alternative embodiment of the present invention further communicate with a video recorder, a DVD player, a radio receiver, a sound amplifier, or any combination thereof.

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The media stream 16 is broadcasted through a broadcasting network such as a cable television network, a satellite television network, a terrestrial television network, a telephone network, a powerline network, a cable or terrestrial 10 radio network or any combination thereof.

The terminal 12 may comprise a hot key 20 enabling a user of the terminal 12 to select, by depressing the hot key 20, a media object 24 associated with the media stream 16. Thus, a 15 user of the terminal 12 watching a television show may during the show depress the hot key 20 and thereby request a media object to be transferred through a communications network, such as a wired or wireless telecommunication network. In addition, the user of the terminal 12 may select any part of the media stream 16 such as any particular audio tracks from the media stream 16.

The communication system 10 enables turning existing mass media properties into further digital merchandise by utilising the familiarity and appeal of characters, events and themes songs of particular television shows, movies or radio programs for media objects to be incorporated into a user's terminal 12.

The media object 24 is created as a representation of a particular scene of a television show, however, the media object 24 may be any key moments of television shows, movies or radio programs such as high points of the plot line (Ross and Rachel's first kiss in the television series "friends"), a

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clever punch line in a television show, a particular comment by a character in a movie or television show, a goal scored in any sports game. The media object 24 may be a video clip, a picture, a series of pictures, animations, soundtracks or the like.

The media object 24 when transferred onto the terminal 12 may be used as any personal terminal enhancement such as background images, ringing tones, messages, or logos. The terminal 12 comprises an editor for enabling a user of the terminal 12 to edit the media object 24 in accordance with any personal preferences. The terminal 12 further comprises a memory for storing of the media object 24 so that the user may further communicate the media object 24 per se or an edited version of the media object 24 to other terminals through a wireless telecommunications network and/or utilising a multimedia messaging service.

An example of the methodology is shown in figure 2. A communication system designated in its entirety by reference numeral 40 comprises a television set 42 having a monitor 44 and a receiver 46 and displaying a specific media stream 48, and comprises a communication device 47 for broadcasting the specific media stream to the receiver 46 and for providing media objects related to the specific media stream to any number of terminals.

A first user is watching the media stream 48 on the television set 42 and desires to transfer a media object 50 associated with the media stream 48 onto a first terminal 52, which transfer is shown as an arrow 54. The first user captures this media object 50 by using the first terminal 52 and pressing the "capture the moment" hot key 56. The first user may then want

to share the media object 50 with a second user of a second terminal 58 and hence in accordance with a set of privileges associated with the first user communicate the media object 50 by utilising for example a multimedia messaging service (MMS), which communication is shown in figure 2 as an arrow 60. The second user of the second terminal 58 may subsequently be using the media object for example as a personal background on his/her terminal or in accordance with a set of privileges associated with the second user distribute it further by sending for example a new e-mail with the media object attached with the e-mail transmission.

The utilisation of the multimedia messaging service for forwarding or sharing the media object may be incorporated in the terminal as a application program presenting a menu enabling the user to activate a transfer of the media object. In addition, the application program may open a recipient window to be filled by the user of the terminal prior to activating a transfer of the media object and in this process offering the user the use of the address book of the terminal. Further, the application program may comprise a editing facility enabling the user of the terminal to edit in the media object prior to activating the transfer of the media object. The editing facility the user may add comments to the media objects. Furthermore, the application program may enable the introduction of an advertisement to be associated and forwarded with the media object. This renders it possible to have messages partly of fully financed by the advertiser who wants to sponsor the media object.

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Both the first and second terminal 52 and 58 provide the first and second user with the possibility to edit the media object

50 so as to personalize a message in conjunction with the transmission of the media object from one terminal to the next.

Figure 3 shows an overall view of the key components of the communication system 10. The communication system 10 comprises a broadcast unit 80 for broadcasting a media stream to one or more television receivers in any given region 82. The broadcast of the media stream is shown as a first arrow 84 and may be accomplished by wireless, cable or satellite transmission. The region 82 may be defined by a cable television network or a plurality of individual television receivers.

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The broadcast unit 80 comprises a marker 86 for continuously generating an associated media stream identification tag to a specific media stream to be aired on a specific transmission date and time. The tag may contain further information regarding duration of the specific media stream, lapsed time of the specific media stream and transmission channel.

The broadcast unit 80 communicates the associated media stream identification tag to a management unit 88 through a first communications network 90 such as local area network, metropolitan area network, wide area network, or inter-network such as the Internet, or alternatively on a dedicated line. The management unit 88 comprises an application program interface 92 for receiving one or more media objects 94 associated with specific media stream identification tags and connects to a database 96 for storing the one or more media objects 94 together with the associated media stream identification tags.

The broadcast unit 80 may perform a continuous transmission of data regarding a media stream information tag, an updating transmission of revision of specific data regarding a media

stream information tag, or a transmission based on a scheduled program listing.

Furthermore, the management unit 88 comprises a real time publishing interface 98 enabling real time publishing of media objects. That is, enabling publishing of the one or more media objects 94 during the broadcast unit's broadcast of an associated media stream.

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In addition, the management unit 88 comprises an interface processor 100 for providing one or more terminals 102 access to the one or more media objects 94 stored in the database 96 through a wireless communications network 104. The interface processor 100 responds to a call from one or more of the 15 terminals 102 and generates a media object list of the one or more media objects that are accessible for the specific one or more terminals 102 at that specific date and time. The access of the one or more media objects 94 may thus be limited to a specific time period so as to create media objects which are dependent on the transmission of a media stream.

The management unit 88 further communicates with a billing device 106 through a second communications network 108, which may be any of the above types mentioned with reference to the first communications network 90, it may in fact be the same communications network. The billing device 106 manages transactions of media objects, accounts of the one or more terminals 102, and generates invoices. The billing device 106 may further communicate with the one or more terminals 102 through a third communications network 110, which as before may be any of the above types mentioned with reference to the first and second communications network 90 and 108 in combination with a wireless communications network.

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In an alternative embodiment of the management unit 88 communicates the media objects through the second communication network 90 to the broadcast unit 80, which communicates the media objects to the one or more television receivers or settop box in the region 82 together with the media stream. The media objects may be communicated as a super text TV object. The one or more television receivers communicate the media objects to the terminals through a wireless communications network 105.

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Figure 4 shows a flow chart of a method according to a second embodiment of the present invention, which method is designated in its entirety by reference numeral 120. The method 120 comprises a start 122 for performing initialisation of the method 120. The start 122 involves establishing an interface for media object generating devices, such as the broadcast unit 80 described with reference to figure 3, and an interface for a terminal, such as the one or more terminals 102 described with reference to figure 3.

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The media object generating devices utilise a management unit, such as described with reference to figure 3 as the management unit 88, for establishing media objects 124 on or under the control of the management unit. The media object generating devices use an original media stream content for creating the media objects associated with said original media stream. The media objects may be key frames or key sounds, which define a special moment of the media stream. The media objects are created prior to broadcasting the media stream, which broadcasting may be performed one or more times in one or more regions or in one ore more television network. However, the media objects may, in addition, be created during a broadcast of an associated media stream, for example during live sports

broadcasts, which enable a terminal to select representative frames of the media stream (sports broadcast) such as a goal scored during a soccer match.

5 The media objects may be implemented in any format such as in Synchronized Multimedia Integration Language (SMIL) format, any JPEG format, any Graphics Interchange Format (GIF), audio or digital audio formats, Audio IFF, Computer Graphics Metafile, TIFF, BIFF, bmp, Clear, FITS, NFF, OFF, PCX, PNG, TGA, XBM, 10 mod, any Moving Picture Experts Group (MPEG) format, Musical Instrument Digital Interface, PICT, PNG, Portable Document Format (PDF), Portable Network Graphics, Portable Pixmap, progressive coding, Quicktime, RIFF, Self Extracting Archive, sequential coding; server-parsed HTML, sprite, Tagged Image 15 File Format, targa, Targa Graphics Adaptor, thumbnail, wav, WebCGM, wireless bitmap, xpm or a different frame rate video.

In an alternative embodiment of the present invention the media objects are created automatically or semi-automatically.

Defining the parameters 126 is achieved by the management unit. The parameters of the media objects may define media object type (audio, video or image), technical format (as described above e.g. JPEG), alternative tasks (full view, close-up), terminal requirements (e.g. Nokia 6100 series). In addition, textual matter or preview versions may be included in the media objects.

When the management unit has received all necessary information regarding media objects associated with a specific media stream the management unit packages the media objects as a set of media objects during packaging 128. The packaging 128 comprises associating the media objects to a specific media stream so

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that each media object are attached to the time line of the media stream by defining the availability of the media object in accordance with the time line of the media stream. This may be achieved by defining the key moment as elapsed time for the start of the media stream (e.g. media stream title, media object identification tag, and media object title - second goal), defining the media object's availability prior, during and after broadcast of the media stream, as well as defining an additional time period during which the availability of a media object is announced but not available for transfer (e.g. advertised prior to broadcast).

When the packaging 128 is accomplished the management unit initiates a publishing 130 of the media object or the set of media objects so that the media object or set of media objects are associated with the specific media stream.

During the media stream broadcast the management unit controls the availability of the media object or the set of media objects by managing 132 availability in accordance with the pre-defined timing and the progression of the media stream broadcast, while taking in to account delays in the start of the broadcast and commercial breaks.

In conjunction with controlling availability of the media object or set of media objects the management unit enables one or more terminals to access the available media objects by providing 134 the requesting one or more terminals to transfer any particular available media object.

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The providing step 134 further comprises presenting a user interface to the one or more terminals, which user interface lists the set of media objects, which may be generated by the

managing device as a response to a request from the one or more terminals such as accomplished by a user of a terminal depressing a hotkey for capturing a media stream moment, as described with reference to figure 3. By depressing the hotkey the user navigates to a web page or starts a particular application. The user interface presents a specific list for a specific terminal, which specific list comprises media objects, which are readable by said specific terminal. Hence the user interface is dynamic in relation to the one or more terminals. For example, if the management unit knows that the specific terminal only supports PNG images the user interface does not present available GIF images.

Furthermore, the list may comprise presently unavailable media objects that will be available in the future and/or previously available media objects, which presently are unavailable. Alternatively, if only one media object is available at any time the user interface may direct the user to directly transfer the media object omitting listing alternatives.

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The user/users of the one or more terminals are subsequently asked whether a purchase of a media object is requested during a purchase? step 136. The media object may have a price, which subsequently to the user transferring the media object is charged to the user. If the user does not wish to purchase a media object, the method 120 is terminated in termination step 138.

On the other hand if the user wishes to purchase a media object of the list of media objects the method 120 moves to transfer the chosen media object during a transfer step 140. When the chosen media object is transferred to the user the transaction is recorded and processed by a separate transaction processing

device such as the billing device as described with reference to figure 3. The transaction may be accomplished in a wide variety of ways such as micro-payment, charging against user account or operating billing.

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When the media object is transferred to the user's terminal it may be identified by the terminal by its format or supporting application (e.g. through MIME type mapping). This initial identification may further reveal which type of potential use is allowed. That is, additional rights and limitations may be attached to the media object (e.g. the user's ability to forward the media object to others may be limited). Hence, when a specific user of a terminal purchases a certain media object, which is transferred to the terminal, the media object includes privileges describing rights and limitations in use or copying of the media object.

#### Claims

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- 1. A system for delivering a media object to one or more terminals, which media object is associated with a media stream broadcasted to one or more media stream receivers, said system comprising:
  - (a) a broadcasting network for connecting to said one or more media stream receivers;
- 10 (b) a first communications network for connecting to said one or more terminals; and
  - (c) a communication device connecting to said broadcasting network and broadcasting said media stream to said one or more media stream receivers, and connecting to said communications network and communicating said media object to said one or more terminals.
  - 2. A system according to claim 1, wherein said media stream comprises a television and/or radio transmitted show, drama, movie, sports game, news, or any combination thereof.
  - 3. A system according to claims 1 or 2, wherein said media object comprises a text, a picture, a series of pictures, a video, a series of videos, an audio recording, a series of audio recordings, or any combination thereof.
  - 4. A system according to any of claims 1 to 3, wherein said terminal comprises a phone, a cellular or mobile phone, a personal computer, television, a set top box, a multimedia terminal, a personal office assistant or any combination thereof.

5. A system according to any of claims 1 to 4, wherein said one or more media stream receivers comprise a set top box, multimedia terminal, television receiver, television, radio receiver or any combination thereof.

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- 6. A system according to any of claims 1 to 5, wherein said communication device broadcasts to said one or more media stream receivers by a cable television network, a satellite television network, a radio frequency television network, a telephone network, a powerline network, a radio network or any combination thereof.
- 7. A system according to claim 6, wherein said communication device is adapted to transmit digitally coded communication such as digital video broadcasting and/or digital audio broadcasting.
  - 8. A system according to any of claims 1 to 7, wherein said first communications network comprises a telephone wire network, a cable television network, a powerline network, a computer network, a wireless telephone network, or any combination thereof.
- 9. A system according to any of claims 1 to 8, wherein said
  communication device comprising a broadcasting unit for
  broadcasting said media stream to said one or more media stream
  receivers, a management unit for providing said media object to
  said one or more terminals, and a second communications network
  for interconnecting said broadcasting unit and said management
  unit.
  - 10. A system according to claim 9, wherein said broadcasting unit comprises a marker for generating a media stream

identification tag associated to said media stream, which media stream identification tag comprises information regarding duration of said media stream, lapsed time of said media stream, broadcasting schedule for said media stream, broadcasting channel for said media stream, or any combination thereof.

- 11. A system according to claims 9 or 10, wherein said broadcasting unit is adapted to perform a continuous communication of data regarding said media stream information tag, an updating communication of revision of specific data regarding said media stream information tag, a communication based on schedule of said media stream, or any combination thereof.
  - 12. A system according to any of claims 9 to 11, wherein said management unit comprises an application program interface for receiving said media object, a database for storing said media object and said media stream identification tag, a real time publishing interface for enabling real time publishing of said media object, and a user interface for providing said one or more terminals access to select said media object stored in said database through said first communications network.
- 25 13. A system according to claim 12, wherein said user interface is adapted to respond to a request from said one or more terminals and to generate a media object list of media objects, which are accessible for said one or more terminals.
- 30 14. A system according to any of claims 9 to 13, wherein said second communications network comprises local area network, metropolitan area network, wide area network, or inter-network

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such as the Internet, a dedicated communication line, or any combination thereof.

- 15. A system according to any of claims 1 to 14 further comprises a billing unit for managing billing transactions for said one or more terminals' requests for said media object and for generating invoices to said one or more terminals in accordance with said billing transactions.
- 16. A system according to claim 17 further comprises a third communications network for interconnecting said billing unit and said management unit and a fourth communications network for interconnecting said billing unit and said one or more terminals.

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- 17. A system according to claim 16, wherein said third and fourth communications network comprises local area network, metropolitan area network, wide area network, or inter-network such as the Internet, a dedicated communication line, a telephone wire network, a cable television network, a powerline network, a computer network, a wireless telephone network, or any combination thereof.
- 18. A system according to any of claims 1 to 17, wherein said

  25 communication device broadcasting said media stream and said

  media object through said broadcasting network and wherein said

  one or more media stream receivers connecting to said first

  communications network and communicating said media object to

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19. A method for delivering a media object to one or more terminals, which media object is associated with a media stream

said one or more terminals.

broadcasted to one or more media stream receivers, and said method comprising:

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- (a) associating said media object with said media stream by means of a communication device;
- (b) broadcasting said media stream to said one or more media stream receivers through a broadcasting network by means of said communication device; and
- (c) communicating said media object to a requesting terminal of said one or more terminals through a communications network by means of said communication device.
- 20. A method according to claim 19 further comprises defining a parameter for said media object by means of said communication device and said parameter defining a media object format such as audio, video, image, or any combination thereof, a technical format, an alternative task such as full view or close-up, a terminal requirement, or any combination thereof.
- 20 21. A method according to claims 19 or 20 further comprises packaging a set of media objects associated with said media stream and publishing said set of media objects to said one or more terminals by means of said communication device.
- 25 22. A method according to claim 21, wherein said packaging comprises linking said media object to said media stream so that said media object is attached to a broadcasting time line of said media stream and defining the availability of said media object in accordance with said broadcasting time line of said media stream.
  - 23. A method according to claims 21 or 22, wherein said packaging further comprises defining a media object based on a

key moment of said media stream as an elapsed time from the start of the media stream, defining the media object's availability prior, during and after broadcast of said media stream, defining an additional time period during which said media object's availability is announced but not available for transfer, or any combination thereof.

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- 24. A method according to any of claims 19 to 23 further comprises managing said set of media objects by means of said communication device, and said managing comprises controlling availability of each media object of said set of media objects in accordance with said broadcast time line for said media stream.
- 25. A method according to claim 24 further comprises providing said one or more terminals access to said available media objects and enabling a requesting terminal of said one or more terminals to transfer any specific available media object.
- 20 26. A method according to claim 25, wherein said providing comprises presenting an interface to said one or more terminals, which interface lists said set of media objects.
- 27. A method according to any of claims 19 to 26 further
  25 comprises generating a media object by means of said
  communication device in response to a request from said one or
  more terminals.
- 28. A method according to claim 27, wherein said request is accomplished by a user of a terminal depressing a hotkey for capturing a key moment of said media stream.

29. A method according to any of claims 26 to 28, wherein said interface presents a specific list for a specific terminal, which specific list comprises a media object, which is readable by said specific terminal.

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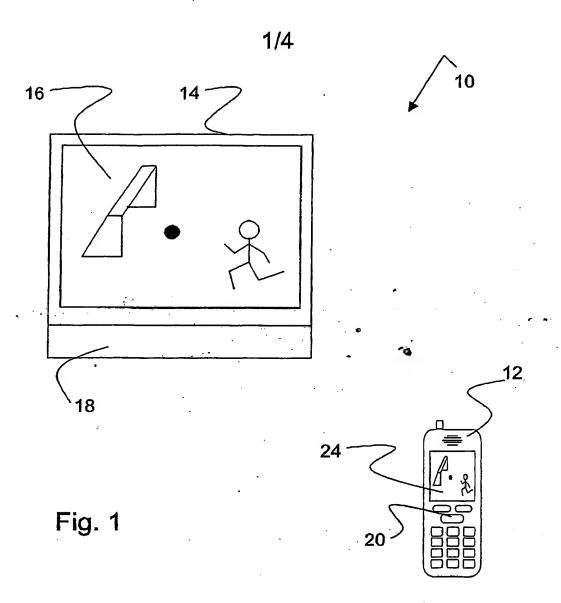
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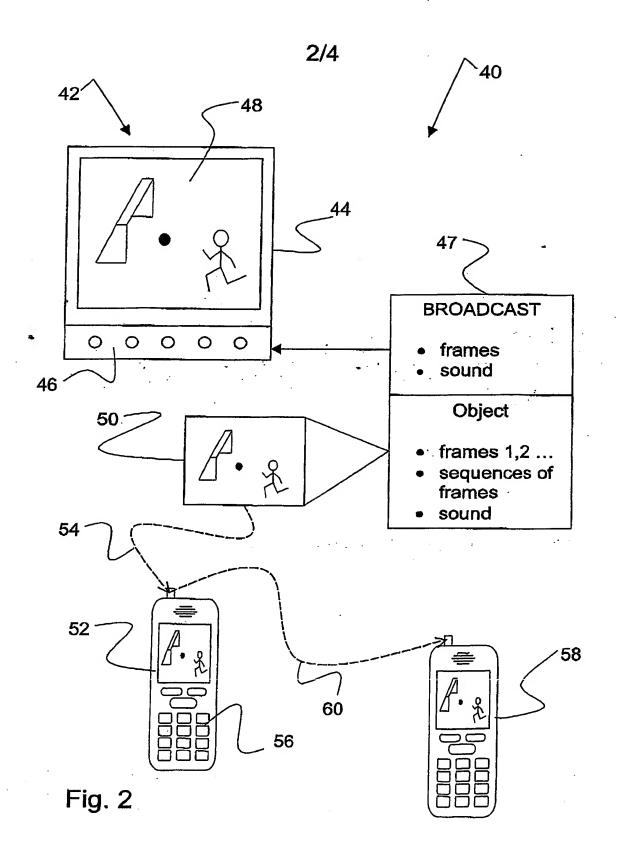
- 30. A method according to any of claims 19 to 29 further comprises purchasing said media object from said communication device by means of said one or more terminals, by purchasing said media object said media object is transferred to said one or more terminals.
- 31. A method according to claim 30 further comprises recording and processing of said transfer of said media object to said one or more terminals by means of a transaction processing device.
- 32. A method according to claims 30 or 31 further comprises identifying said media object format by means of said one or more terminals, said identifying revealing information such as supporting application needed, additional rights pertaining to said media object, forwarding limitations associated with said media object, or any combination thereof.
- 33. A method according to any of claims 19 to 32, further
  comprising providing privileges associated with said media
  object and with said one or more terminals, which privileges
  enable said one or more terminals to copy or forward said media
  object in accordance with each of said one or more terminals'
  number of purchases of said media object and/or which
  privileges disable said one or more terminals to copy or
  forward said media object and/or which privileges disable said
  one or more terminals to copy or forward more than said one or
  more terminals' number of purchases.

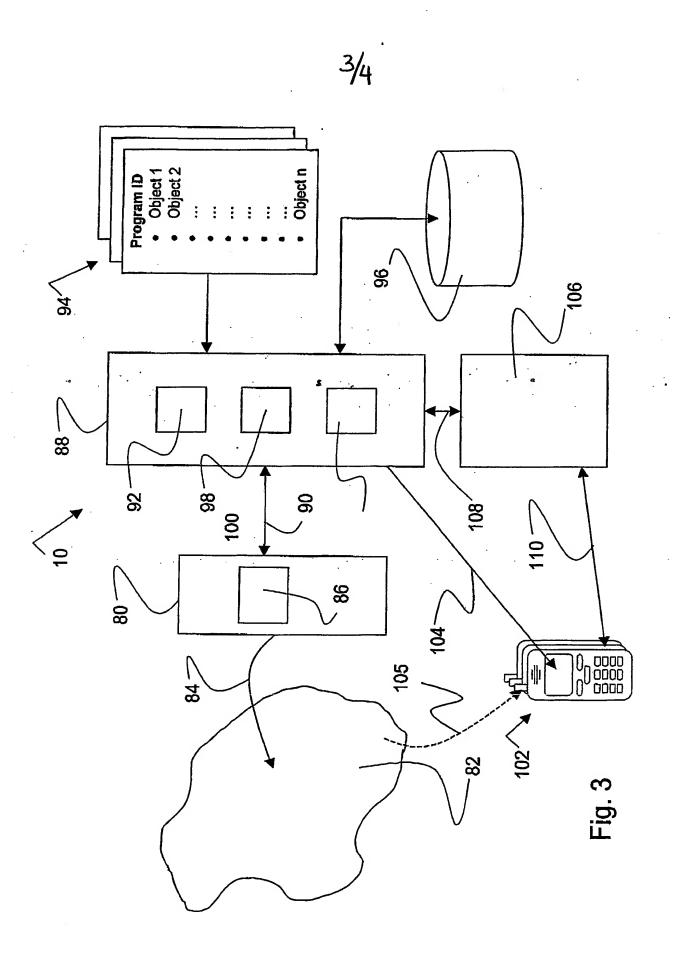
34. A method according to any of claims 19 to 33, wherein said method further incorporates any features of the system according to any claims 1 to 18.

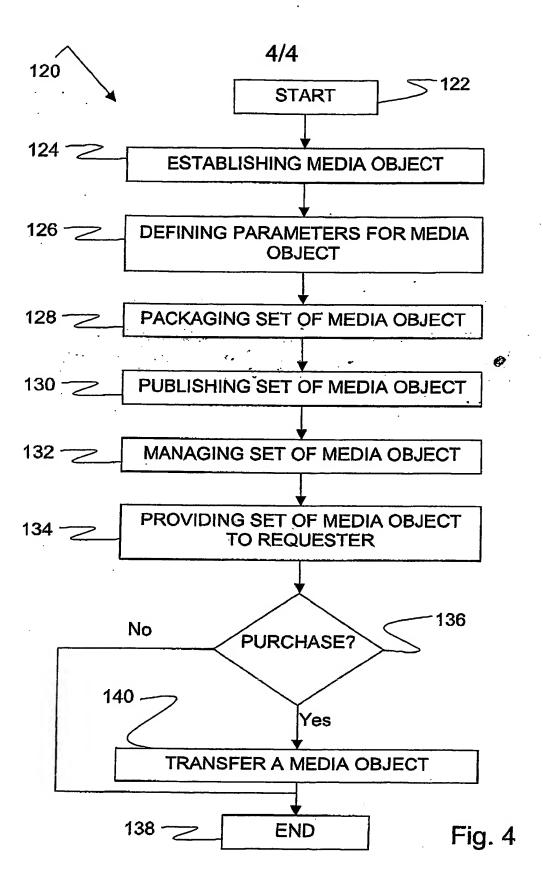
#### Abstract

This invention relates to a system and method for delivering a media object associated with a media stream broadcasted from a communication device to a broadcast receiving unit such as a personal computer, a multimedia terminal, a television receiver, a television, or any type of radio receiver, to a terminal such as a phone, a cellular or mobile phone, a personal computer, a television, or a personal office assistant officered.









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